

DONALD CHUNG

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PROFESSIONAL SUMMARY

Physics-informed ML researcher and full-stack engineer, currently completing a Bachelor of Computer Engineering (Honours) at UNSW. Built and deployed production web apps, trained GNNs for structural surrogate modelling, and led teams to \$100k+ in revenue. Experienced across the AI stack — from fine-tuning LLMs and integrating Claude, OpenAI, and HuggingFace APIs to building multi-agent pipelines with LangChain. Seeking to apply AI and backend expertise to high-impact, production-grade engineering roles.

PROJECTS

FEADestroyer — Python, GNN, scikit-learn, NumPy

- Built a physics-informed surrogate model for 2D truss bridge design, replacing expensive FEA simulations at inference time.
- Implemented a matrix-stiffness FEM solver from scratch to generate labelled training data across thousands of varied bridge geometries.
- Trained ML models (Random Forest, Neural Network) to predict stress utilisation and deflection directly from structural geometry.
- Modelled truss structures as graphs and experimented with GNN architectures to exploit topological relationships between members.
- Achieved significant inference speedup over traditional FEA while maintaining engineering-grade prediction accuracy.

Snap Ops — Internal Operations Dashboard — Next.js, Express, SQLite, TypeScript

- Built an internal retail operations dashboard for inventory management, order tracking, and low-stock alerts.
- Designed and implemented a REST API backend with Express and SQLite to support real-time stock and order data.
- Deployed and actively used in day-to-day operations at Snap Wireless to streamline fulfilment workflows.

WhatStillOpenSydney — Next.js, Google Places API, Vercel

- Built a production-deployed Next.js web app identifying venues open at a user-selected time across Sydney.
- Implemented geolocation-based “Near Me” search, dynamic radius filtering, and Google Maps deep-link directions.
- Created a “Plan My Night” feature that intelligently selects an open restaurant, activity, and bar based on time offsets.
- Deployed to Vercel with environment-based secrets management, API batching/throttling, and analytics tracking.

Wingman — Duolingo for Social Anxiety — Next.js, TypeScript, OpenAI Realtime API, Supabase • wingman.social

- Conceived and co-built a social anxiety training app at UniHack 2026, shipping ~50% of the codebase.
- Designed AI-driven scenario generation and real-time voice conversation practice using the OpenAI Realtime API.
- Built the full gamification system — XP, streaks, daily challenges, badges, and a live leaderboard — backed by Supabase.
- Implemented a voice-based onboarding questionnaire that personalises conversation scenarios to each user’s anxiety triggers.
- Deployed to production at wingman.social with 40 deployments across a 5-branch collaborative workflow.

EMPLOYMENT HISTORY

Growth Engineer

Apr 2025 – Present

Habeas.ai

Sydney

- Built and automated SDR workflows using Clay and AI-personalised outreach sequences, targeting Australian law firms and barristers at scale with measurably higher reply rates than generic campaigns.
- Contributed to RAG pipeline development, improving document retrieval accuracy for legal research use cases by refining chunking strategies and prompt engineering for the Anthropic and OpenAI APIs.
- Designed and iterated on product UI/UX in collaboration with the founding team, creating sales collateral and ICP-specific brochures in Gamma and Canva to support demos and warm outreach campaigns.
- Ran AI literacy sessions with prospective clients, demoing the platform and translating complex LLM capabilities into practical legal workflows to accelerate adoption and shorten the sales cycle.
- Managed CRM pipeline in Attio, built lead lists by scraping barrister chambers clerk contacts across Australian states, and owned end-to-end outreach from cold prospecting through to demo calls.

Manager & Lead Sales

Nov 2025 – Present

Snap Wireless

Sydney

- Led a sales team to generate \$100,000 in revenue within two months while managing daily operations.
- Implemented Shopify backend optimisations to shorten order processing time and improve accuracy.
- Reduced operating costs through optimised staff rostering and tighter inventory controls.

- Built an internal operations dashboard (Snap Ops) to streamline inventory and order fulfilment workflows.

Founder

Feb 2025 – Present

Rugby Ducky Studios

Sydney

- Founded and ran a custom rug business, growing monthly revenue to \$3,000 and audience to 110k monthly viewers.
- Managed a team of three, coordinating production schedules and client relations for custom orders.
- Grew social media presence through targeted content strategy, driving a 30% increase in project engagement.

Physics, Maths and Biology Tutor

Jan 2025 – Jan 2026

Tuita Tutoring

Sydney

- Delivered one-on-one and group instruction in physics, maths, and biology, achieving a reported 40% improvement in student marks.
- Developed personalised lesson plans and analysed performance data to identify and address individual knowledge gaps.

Photobooth Assistant

Sep 2024 – Present

Happy Cap Studios

Sydney

- Operated photobooth equipment at high-profile events including Nespresso corporate events, K-pop conventions, and Smashcon.
- Troubleshoot on-site technical issues under time pressure to maintain smooth event flow.

Team Member — Taco Bell • Easter Show Fun Pass Operator

2024 – 2025

EDUCATION

Bachelor of Computer Engineering (Honours)

Jan 2024 – Jan 2028

University of New South Wales (UNSW Sydney)

Sydney

HD INFS2604 (Intro to AI) • D COMP2521 (Data Structures & Algorithms) • D COMP1531 (Backends)
Student Representative, School of CSE

SKILLS

Languages: C (Experienced), Python (Skilful), TypeScript (Experienced), JavaScript, Assembly (MIPS)

Backend & Systems: Node.js, Express, REST APIs, Git, Linux, Microcontrollers, Embedded Systems

AI & ML: Claude API, OpenAI / GPT APIs, LangChain / AI Agents, Hugging Face, GNN Training, LLM Fine-tuning

LEADERSHIP & ACTIVITIES

- Events Director — UNSW Golf Society
- UI/UX Subcommittee — DevSoc
- Events Subcommittee — Riot Games Society

LANGUAGES

English (Native) • Mandarin (Novice) • Cantonese (Novice)

HOBBIES

- Bouldering – strategic problem-solving under physical constraints, requiring adaptability and iterative optimisation.
- Financial Markets & Trading – active interest in market microstructure, risk management, and short-term price dynamics.
- Software Projects – building personal tools to explore systems design, automation, and AI-driven problem solving.